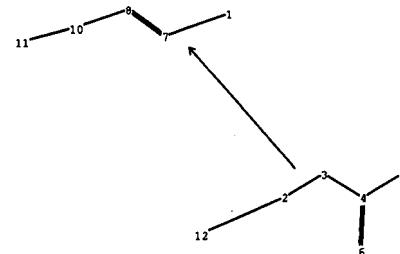
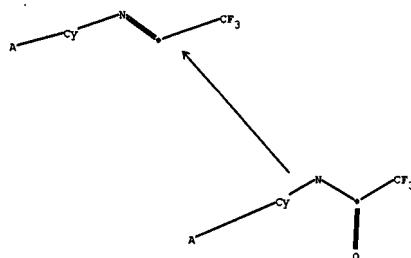


L 6



chain nodes :

1 2 3 4 5 6 7 8 10 11 12

chain bonds :

1-7 2-3 2-12 3-4 4-5 4-6 7-8 8-10 10-11

exact/norm bonds :

2-3 2-12 3-4 4-6 7-8 8-10 10-11

exact bonds :

1-7 4-5

Match level :

1:CLASS2:Atom 3:CLASS4:CLASS5:CLASS6:CLASS7:Atom 8:CLASS10:Atom 11:CLASS12:CLASS

Generic attributes :

2:

Saturation : Unsaturated

10:

Saturation : Unsaturated

fragments assigned product role:

containing 1

fragments assigned reactant/reagent role:

containing 2

CAS ONLINE PRINTOUT

=> d his

(FILE 'HOME' ENTERED AT 09:25:19 ON 23 APR 2007)

FILE 'REGISTRY' ENTERED AT 09:25:25 ON 23 APR 2007  
E PHOSPHOROUS OXYCHLORIDE/CN

L1 1 S E4  
E PHOSPHORIC TRICHLORIDE/CN  
L2 1 S E3  
E DI PHENYL CHLOROPHOSPHATE/CN  
L3 1 S E3

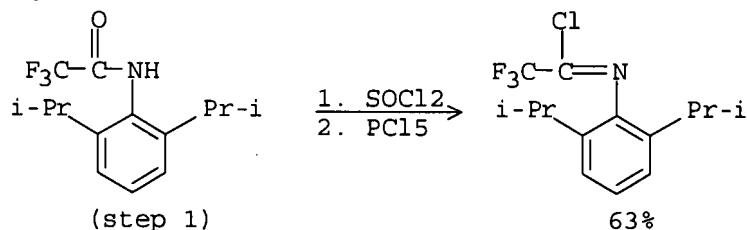
FILE 'CASREACT' ENTERED AT 09:27:46 ON 23 APR 2007

L4 STRUCTURE uploaded  
L5 0 S L4  
L6 STRUCTURE uploaded  
L7 0 S L6  
L8 4 S L6 FUL

=> d crdref 1-4

L8 ANSWER 1 OF 4 CASREACT COPYRIGHT 2007 ACS on STN

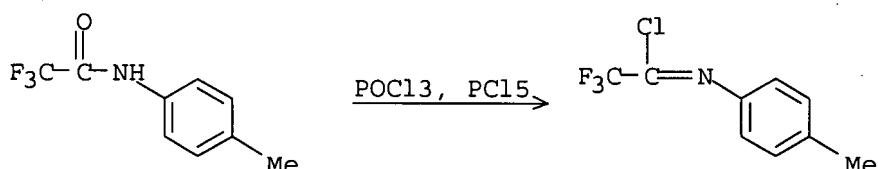
RX(3) OF 10



REF: Canadian Journal of Chemistry, 78(5), 583-589; 2000

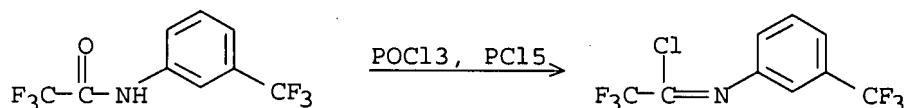
L8 ANSWER 2 OF 4 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 3



REF: Khimiko-Farmatsevticheskii Zhurnal. 30(11). 26-28. 1996

RX(3) OF 3

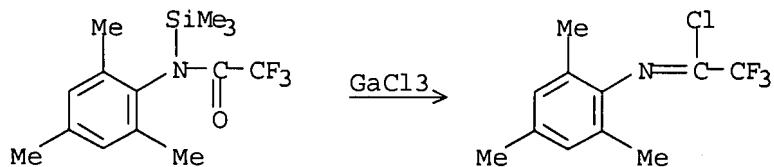


REF: Khimiko-Farmatsevticheskii Zhurnal, 30(11), 26-28; 1996

CAS ONLINE PRINTOUT

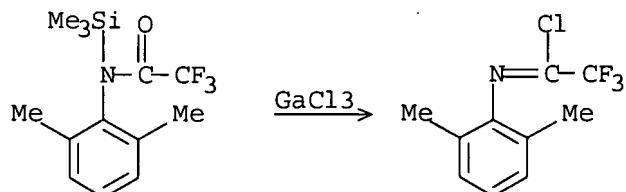
L8 ANSWER 3 OF 4 CASREACT COPYRIGHT 2007 ACS on STN

RX(6) OF 9



REF: Monatshefte fuer Chemie, 111(5), 1087-96; 1980

RX(8) OF 9



REF: Monatshefte fuer Chemie, 111(5), 1087-96; 1980

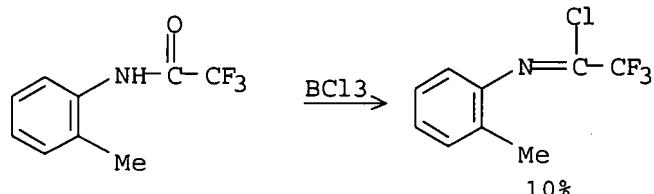
L8 ANSWER 4 OF 4 CASREACT COPYRIGHT 2007 ACS on STN

RX(3) OF 88



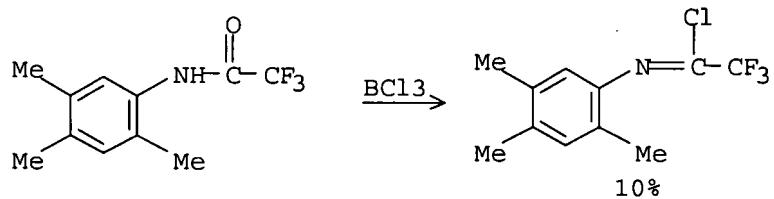
REF: Monatshefte fuer Chemie, 110(1), 63-88; 1979

RX(29) OF 88



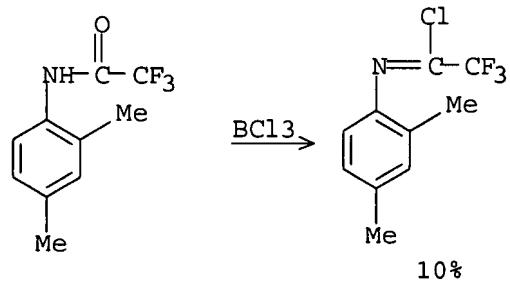
REF: Monatshefte fuer Chemie, 110(1), 63-88; 1979

RX(30) OF 88



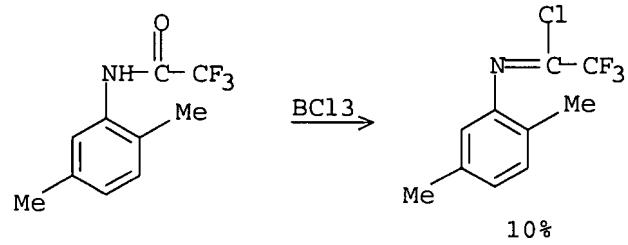
REF: Monatshefte fuer Chemie, 110(1), 63-88; 1979

RX(48) OF 88



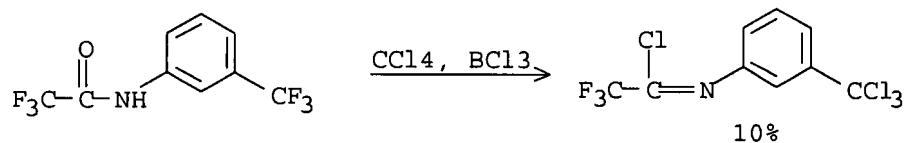
REF: Monatshefte fuer Chemie, 110(1), 63-88; 1979

RX(49) OF 88



REF: Monatshefte fuer Chemie, 110(1), 63-88; 1979

RX(50) OF 88



REF: Monatshefte fuer Chemie, 110(1), 63-88; 1979

=>

CAS ONLINE PRINTOUT

=> d his

(FILE 'HOME' ENTERED AT 09:25:19 ON 23 APR 2007)

FILE 'REGISTRY' ENTERED AT 09:25:25 ON 23 APR 2007

E PHOSPHOROUS OXYCHLORIDE/CN

L1 1 S E4

E PHOSPHORIC TRICHLORIDE/CN

L2 1 S E3

E DIPHENYL CHLOROPHOSPHATE/CN

L3 1 S E3

FILE 'CASREACT' ENTERED AT 09:27:46 ON 23 APR 2007

L4 STRUCTURE UPLOADED

L5 0 S L4

L6 STRUCTURE UPLOADED

L7 0 S L6

L8 4 S L6 FUL

FILE 'REGISTRY' ENTERED AT 09:31:34 ON 23 APR 2007

L9 22 S TERTIARY AMINE

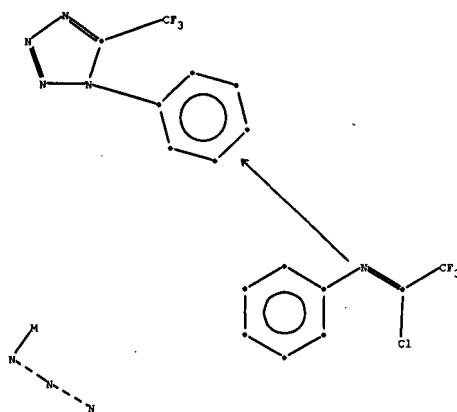
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L10 1579 S TERTIARY AMINE

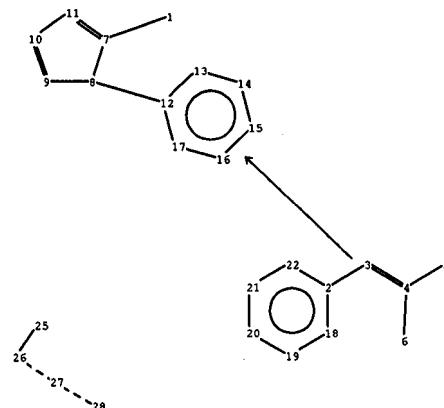
=> s l10 and l8

L11 0 L10 AND L8

=>



L1



chain nodes :

1 3 4 5 6 25 26 27 28

ring nodes :

2 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

chain bonds :

1-7 2-3 3-4 4-5 4-6 8-12 25-26 26-27 27-28

ring bonds :

2-18 2-22 7-8 7-11 8-9 9-10 10-11 12-13 12-17 13-14 14-15 15-16 16-17 18-19 19-20 20-21  
21-22

exact/norm bonds :

2-3 3-4 7-8 7-11 8-9 8-12 9-10 10-11 26-27 27-28

exact bonds :

1-7 4-5 4-6 25-26

normalized bonds :

2-18 2-22 12-13 12-17 13-14 14-15 15-16 16-17 18-19 19-20 20-21 21-22

Match level :

1:CLASS2:Atom 3:CLASS4:CLASS5:CLASS6:CLASS7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS  
12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom  
25:CLASS26:CLASS27:CLASS28:CLASS

fragments assigned product role:

containing 1

fragments assigned reactant/reagent role:

containing 2

containing 25

CAS ONLINE PRINTOUT

=> d his

(FILE 'HOME' ENTERED AT 09:48:18 ON 23 APR 2007)

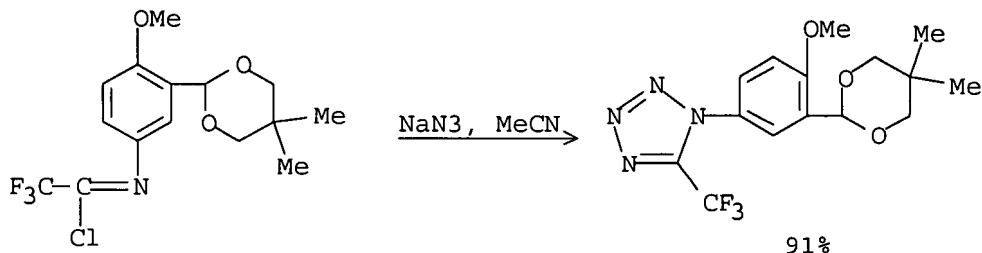
FILE 'CASREACT' ENTERED AT 09:48:40 ON 23 APR 2007

L1                   STRUCTURE UPLOADED  
L2                   0 S L1  
L3                   2 S L1 FUL

=> d crdref 1-2

L3   ANSWER 1 OF 2   CASREACT   COPYRIGHT 2007 ACS on STN

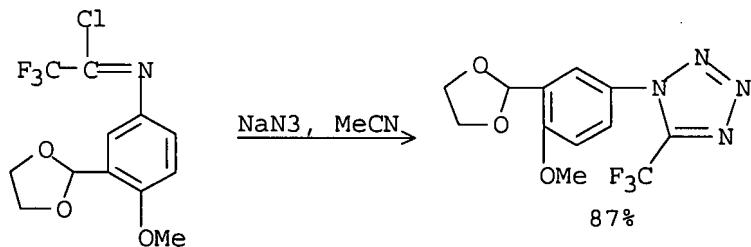
RX(14) OF 81



REF: Faming Zhuanli Shenqing Gongkai Shuomingshu, 1850810, 25 Oct 2006

CON: room temperature

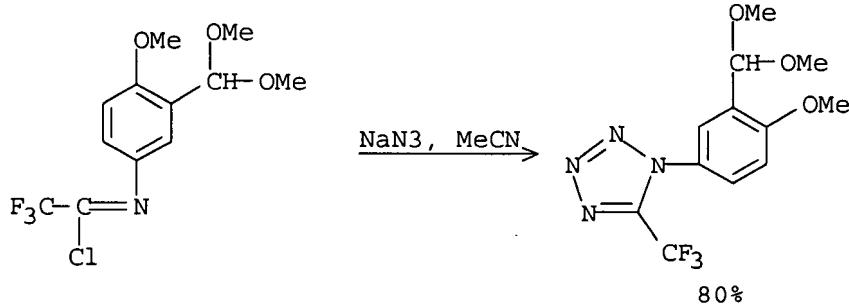
RX(15) OF 81



REF: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11pp.; 2006

CON: room temperature

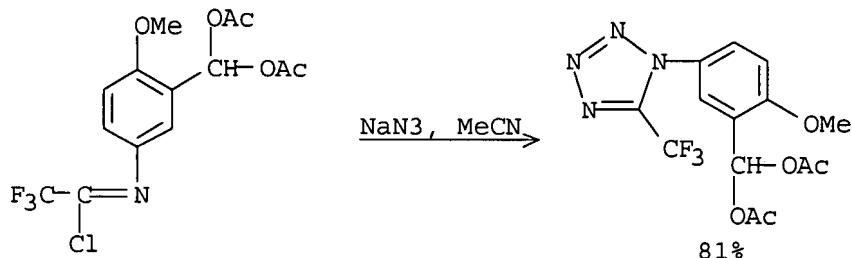
RX(16) OF 81



REF: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11pp.; 2006

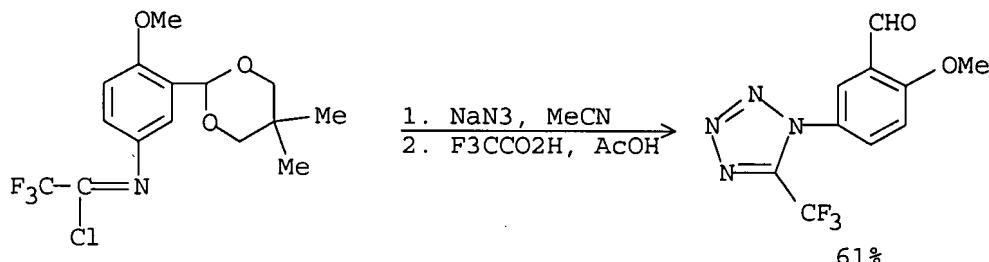
CON: room temperature

RX(17) OF 81



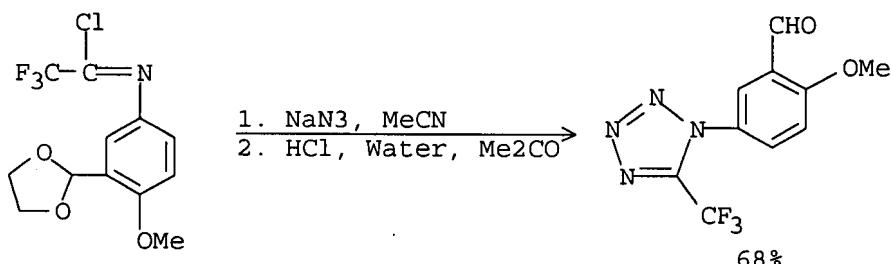
REF: Faming Zhuanli Shengqing Gongkai Shuomingshu, 11pp.; 2006  
CON: room temperature

RX(38) OF 81 - 2 STEPS



REF: Faming Zhuanli Shengqing Gongkai Shuomingshu, 11pp.; 2006  
CON: STEP(1) room temperature  
STEP(2) reflux

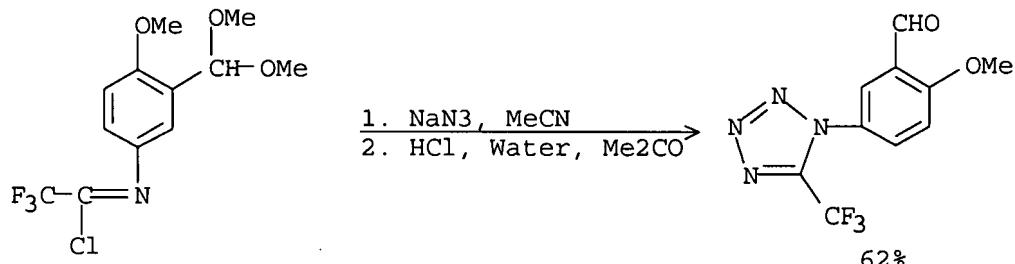
RX(39) OF 81 - 2 STEPS



REF: Faming Zhuanli Shengqing Gongkai Shuomingshu, 11pp.; 2006  
CON: STEP(1) room temperature  
STEP(2) room temperature

CAS ONLINE PRINTOUT

RX(40) OF 81 - 2 STEPS

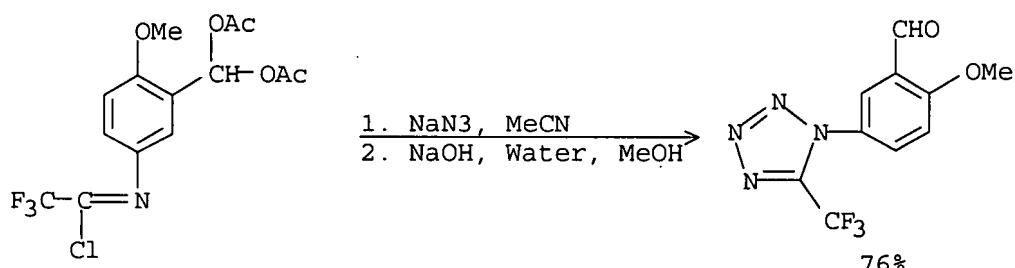


REF: Faming Zuanli Shengqing Gongkai Shuomingshu, 11pp.; 2006

CON: STEP(1) room temperature

STEP (1) room temperature

RX(41) OF 81 - 2 STEPS



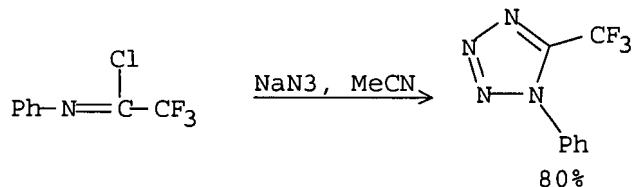
REF: Faming Zuanli Shengqing Gongkai Shuomingshu, 11pp.; 2006

CON: STEP(1) room temperature

#### STEP (2) reflux

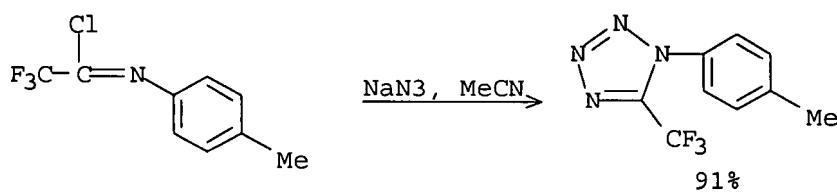
L3 ANSWER 2 OF 2 CASREACT COPYRIGHT 2007 ACS on STN

RX(1) OF 12



REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

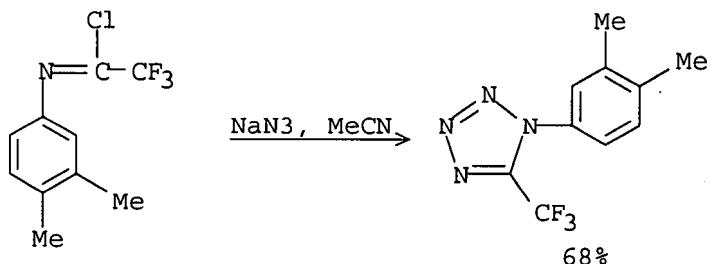
RX(2) OF 12



REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

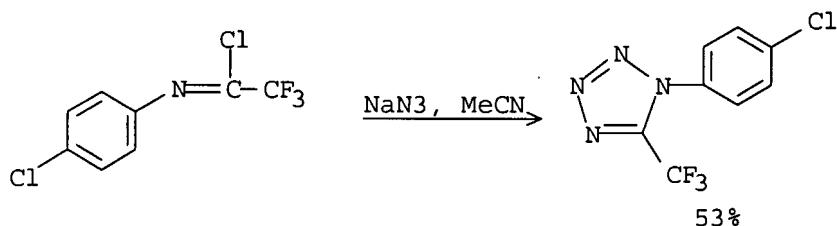
CAS ONLINE PRINTOUT

RX(3) OF 12



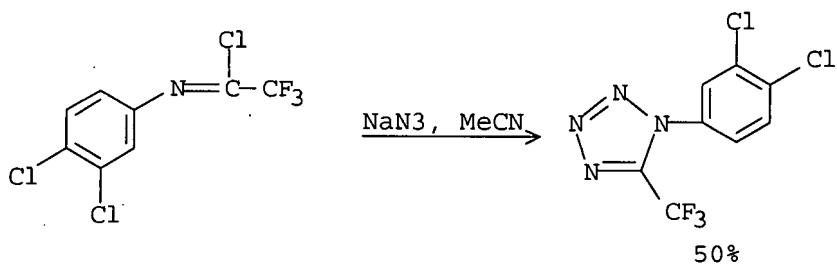
REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

RX(4) OF 12



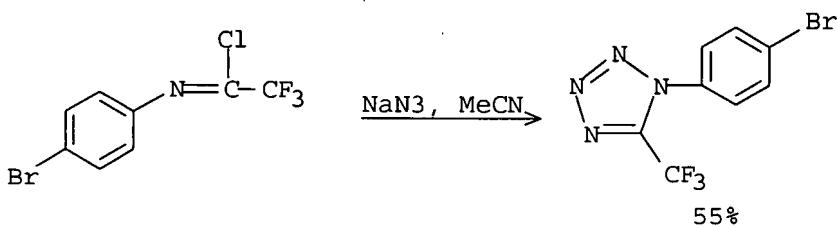
REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

RX(5) OF 12



REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

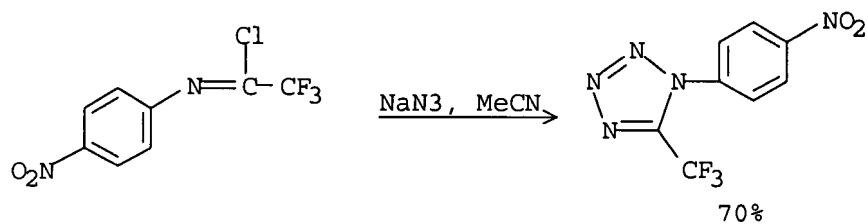
RX(6) OF 12



REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

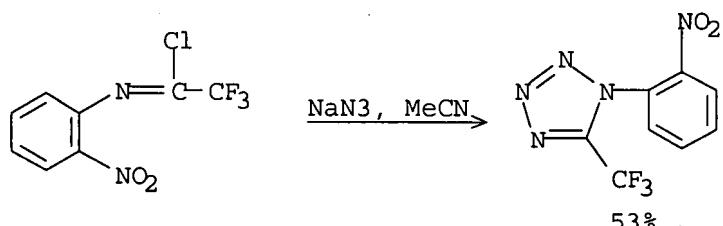
CAS ONLINE PRINTOUT

RX(7) OF 12



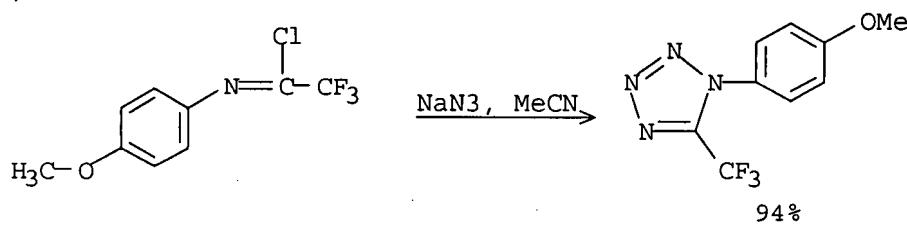
REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

RX(8) OF 12



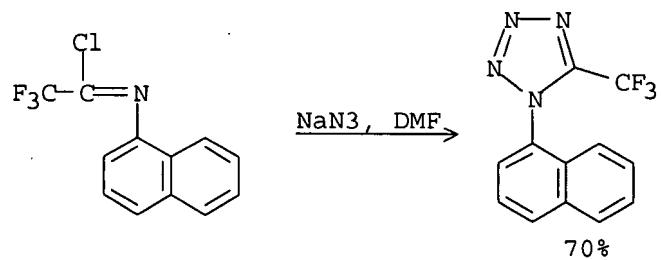
REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

RX(9) OF 12



REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

RX(12) OF 12



REF: Journal of Fluorine Chemistry, 99(1), 83-85; 1999

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